

IN THE CLAIMS:

Please amend claims 1 and 2 as follows:

1. (Currently Amended) A liquid crystal light valve for a projection type display comprising:

~~a semiconductor substrate having a region for a plurality of switching elements disposed in a matrix format on a surface thereof; said substrate having on one of the surfaces insulating layers and metal layers alternately in a stacked form;~~

~~an opposite substrate opposing to said semiconductor substrate and having opposite electrodes on one surface thereof, the surface having the opposite electrodes being disposed with a spacing from the stacked surface on which the insulating layers and the metal layers of said semiconductor substrate are alternately stacked;~~

~~a liquid crystal layer disposed between said semiconductor substrate and said opposite substrate;~~

~~a plurality of the metal layers disposed on said semiconductor substrate being divided into a plurality of parts by slits;~~

~~an upper metal layer in the plurality of metal layers disposed on said semiconductor substrate, when viewed from the semiconductor substrate, and having electrodes divided by the slits and serving as pixel electrodes;~~

~~a lower metal layer in the plurality of metal layers disposed on the semiconductor substrate, when viewed from the semiconductor substrate, and having electrodes divided by the slits, and serving as signal lines for the switching elements and for connection between the switching elements and the pixel electrodes; and~~

~~at least one shading layer in the plurality of metal layers disposed between the upper~~

~~metal layer and the lower metal layer, for interrupting light projected from said opposite substrate side.~~

a semiconductor substrate on one surface of which a region of switching elements is formed and a plurality of pixels are formed in a matrix form;

a first metal layer formed on said one surface of the semiconductor substrate through an insulating layer, said metal layer being divided into a plurality of metal layers by first slits;

a second metal layer formed on said first metal layer through an insulating layer and including a shading layer formed so as to cover the entire surface of said plurality of pixels and one intermediate electrode electrically isolated from said shading layer by second slits within said pixel;

a third metal layer formed on said second metal layer through an insulating layer and divided into a plurality of metal layers by third slits;

an opposite substrate including opposite electrodes on one surface thereof, said opposite electrodes opposing to said third metal layer with a spacing; and

a liquid crystal filled in the spacing between said opposite electrode and said third metal layer;

said intermediate electrode of said second metal layer being electrically connected with said first metal layer and said third metal layer through though-holes;

said shading layer of said second metal layer being electrically isolated from said first metal layer and said third metal layer; and

said second slits being staggered from said first slits and said third slits in a direction along the surface of said semiconductor substrate.

2. (Currently Amended) A projection type display comprising:
~~a liquid crystal light valve;~~

a light source supplying light irradiated from an opposite substrate side to said liquid crystal light valve;

an optical system projecting reflected light from said liquid crystal light valve in enlarged form; and

said liquid crystal light valve comprising:

a semiconductor substrate having a region for a plurality of switching elements disposed in a matrix format on a surface thereof;

said substrate having on one of the surfaces insulating layers and metal layers alternately in a stacked form;

an opposite substrate opposing to said semiconductor substrate and having opposite electrodes on one surface thereof, the surface having the opposite electrodes being disposed with a spacing from the stacked surface on which the insulating layers and the metal layers of said semiconductor substrate are alternately stacked;

a liquid crystal layer disposed between said semiconductor substrate and said opposite substrate;

a plurality of the metal layers disposed on said semiconductor substrate being divided into a plurality of parts by slits;

an upper metal layer in the plurality of metal layers disposed on said semiconductor substrate, when viewed from the semiconductor substrate, and having electrodes divided by the slits and serving as pixel electrodes;

a lower metal layer in the plurality of metal layers disposed on the semiconductor substrate, when viewed from the semiconductor substrate, and having electrodes divided by the slits, and serving as signal lines for the switching elements and for connection between the switching elements and the pixel electrodes; and

at least one shading layer in the plurality of metal layers disposed between the

~~first upper metal layer and the lower metal layer, for interrupting light projected from said opposite substrate side~~ light valve according to claim 1, wherein regions of capacitor elements are formed on one surface of said semiconductor substrate, each region corresponding to each of said switching element regions, and a substrate potential feeding line is formed by either one of said metal layers, and said feeding line provides a substrate potential to a substrate potential region of said switching element and said capacitor element region.

3. (New) A projection type display light valve according to claim 2, wherein an image signal line feeding an image signal to an image signal input terminal of said switching element region is formed by either one of said metal layers, and said substrate feeding line and said image signal line are disposed in parallel with each other.

4. (New) A projection type display light valve according to claim 1, wherein a black layer is formed on at least one surface of each of said first metal layer, said second metal layer and said third metal layer.

5. (New) A projection type display light valve according to claim 1, wherein a region of a signal circuit for providing a signal to said switching element region is provided on the one surface of said semiconductor substrate.

6. (New) A projection type display light valve according to claim 5, wherein said signal circuit includes a circuit for providing an image signal to each of said switching element regions and a circuit for providing a control signal to each switching element.

7. (New) A projection type display light valve according to claim 1, wherein at least one of said insulating layers is a light absorbing insulating layer.

8. (New) A projection type display light valve according to claim 7, wherein said light absorbing layer is colored polyimide.

9. (New) A projection type display light valve according to claim 4, wherein said black layer contains a chromium oxide or a tantalum oxide.

10. (New) A projection type display comprising:

a light valve,

said light valve comprising:

a semiconductor substrate on one surface of which a region of switching elements is formed and a plurality of pixels are formed in a matrix form;

a first metal layer formed on said one surface of the semiconductor substrate through an insulating layer, said metal layer being divided into a plurality of metal layers by first slits;

a second metal layer formed on said first metal layer through an insulating layer and including a shading layer formed so as to cover the entire surface of said plurality of pixels and one intermediate electrode electrically isolated from said shading layer by second slits within said pixel;

a third metal layer formed on said second metal layer through an insulating layer and divided into a plurality of metal layers by third slits;

an opposite substrate including opposite electrodes on one surface thereof, said opposite electrodes opposing to said third metal layer with a spacing; and

a liquid crystal filled in the spacing between said opposite electrode and said third

metal layer;

 said intermediate electrode of said second metal layer being electrically connected with said first metal layer and said third metal layer through though-holes;

 said shading layer of said second metal layer being electrically isolated from said first metal layer and said third metal layer; and

 said second slits being staggered from said first slits and said third slits in a direction along the surface of said semiconductor substrate,

 a light source feeding light irradiated from the side of said opposite substrate to said liquid crystal light valve, and

 an optical system enlarging and projecting light reflected from said liquid crystal light valve.

11. (New) A projection type display according to claim 10, wherein regions of capacitor elements are formed on one surface of said semiconductor substrate, each region corresponding to each of said switching element regions, and a substrate potential feeding line is formed by either one of said metal layers, and said feeding line provides a substrate potential to a substrate potential region of said switching element and said capacitor element region.

12. (New) A projection type display light valve according to claim 11, wherein an image signal line feeding an image signal to an image signal input terminal of said switching element region is formed by either one of said metal layers, and said substrate feeding line and said image signal line are disposed in parallel with each other.

13. (New) A projection type display light valve according to claim 10, wherein a

black layer is formed on at least one surface of each of said first metal layer, said second metal layer and said third metal layer.

14. (New) A projection type display light valve according to claim 10, wherein a region of a signal circuit for providing a signal to said switching element region is provided on the one surface of said semiconductor substrate.

15. (New) A projection type display light valve according to claim 14, wherein said signal circuit includes a circuit for providing an image signal to each of said switching element regions and a circuit for providing a control signal to each switching element.

16. (New) A projection type display light valve according to claim 10, wherein at least one of said insulating layers is a light absorbing insulating layer.

17. (New) A projection type display light valve according to claim 16, wherein said light absorbing layer is colored polyimide.

18. (New) A projection type display light valve according to claim 13, wherein said black layer contains a chromium oxide or a tantalum oxide.